JAPAN = UNITED STATES · R. DIGHICLOSICAL CONFURDICE

Japan Science Council, Veno, Tokyo-Wednesday, November 17

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The third day of the Japan - United States Conference on Radiobiology was spent in discussion of United States and Japanese methods for reasuring the intensity of atomic radiation from various sources. The United States Delegation exhibited and demonstrated a wide range of radiation letection instruments employed for differ nt purposes. Nembers of both delegations tressented reports on methods used for analyzing and applying the radiation measurements obtained in laboratory and field.

The chairman for the mornior massion was Dr. Funio Yamasaki of the for mass delegation; for the afternoon, Dr. Sterling B. Hendricks of the United States delegation.

The first subject was equipment employed for sampling air and removing airborne relicactivity particles for measurement in the laboratory. The american air sampling equipment used in atomic plants to help safeguard the health of workers and in outdoor locations to gather the air-borne dusts was whiteful, their specificatic signer, and their operation explored. There wie particular interest on the part of the Japaness delegation in the filt of pairs and their questions used to extract particles from the dir; also in the 1-foot squares of named papar employed at more than a hunir delocations in the United States to collect samples of the particles falling freely from the states in or brought down by ruin or show.

The discussion next turn dute the instruments used to detect and measure the different types of radiation either in sameles collected from plants or estadors or the radiation which occurs in nature. Massocial attention was call to attention methods of a hibrating instruments. It was pointed out by Dr. John Harley of the United States Delegation, who opened this discussion, that different radiations between two instruments in the same laboratory or as between instruments in the same laboratory are as between instruments in the same laboratory at as between instruments in different sametries or as however instructions.

Both deferrations reserved their collibration methods. The discussion maked ever not only collibration, but the use and the interpretation of receivings on beth-gamma survey instruments, film bedges, lonization chambers, and scintillation counters, and on hix different types of instruments for the curies neutron radiation. There was particular interest in the latter discussion on the part of Dr. 3. Shimizu of Ayoto University, who is building a cycletron and wish a to install the best available neutron instrumentation for use in research a with this machine. Dr. Harley and kr. Learni Eisenbud, who represented the United States delegation in the instrumentation presentations, made extensive as not only of instruments and components but of color slides of the larger types of fixed instruments appropriate in an risk laboratories which could not be transported to the confer now, and answed ration platures of a quire at in operation.

Julie

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The afternoon session was opened at 1:30 F.M. with Dr. Hendricks presiding. A 16 mm motion picture film and slides were presented to explain in detail the equipment, instruments and methods used on a large scale for surveying the distribution of fallout of radioactive ask when atomic bomb tests are carried out in continental United States. Some of the actual equipment was shown. This showed the procedures for collecting the radioactive dust on gummed paper at the observation points scattered around the country and, mailing to the Atomic Energy Commission, where the many samples are handled mechanically and efficiently, baked into ask, and are automatically measured and recorded for radioactivity.

Afterwards, Dr. Harley used slides and printed matter to explain the method for analyzing minute quantities of radioactive substances included in the material. Interested questions were asked by Dr. Miyake, Dr. Mimura, and others of the Japanese delegation.

Dr. Hendricks followed, using a printed text, giving a detailed explanation of the methods for protecting against various radicactive contamination of workers and the laboratory when carrying out experiments with various radicactive elements. These methods included such factors as the construction of laboratory rooms and the prevention of contamination of the equipment and dask surfaces. A few questions were asked about this subject by the Japanese delegates, such as what should be done for disposing radicactive waste water down the drain, which had been used in the laboratory. Also Dr. Harley was asked what should be done to dispose safely of the samples of radicactive dust, to which question he answered that all of the samples were stored for record.

The day's conference closed at 4 o'clock.

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